



STANFORD UNIVERSITY

## HIV DRUG RESISTANCE DATABASE

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance

HOME GENOTYPE-RX GENOTYPE-PHENO GENOTYPE-CLINICAL HIVdb PROGRAM

## Drug Resistance Data

Susceptibility Data on Clinical Isolates: NFV

Author (yr)	Method	Isolates	Major	Minor	Other	Fold
<u>Winters</u> (1998)	Winters-PBMC	JL-11-post	G73S, I84V, L90M	L10I, M36I, L63P, A71V, I93L	I13MI, E35D, N37S, R41K, I62V	30.0
<u>Winters</u> (1998)	Winters-PBMC	JL-11-pre	I84V, L90M	L10I, L63P, A71V, I93L	E35D, N37S, R41K, I62V	7.0
<u>Palmer</u> (1999)	Palmer-99	CA5076	M46L, I54V, V82A, I84V, L90M	L10I, M36V, L63P, A71V	E35D, K43T, D60E, I62V	47.0
→ <u>Palmer</u> (1999)	Palmer-99	CA8047	M46I, G73T, I84V, L90M	L10I, K20I, L63P, A71I, I93L	T12P, I15V, L19I, I64V, <u>P79AS</u>	11.0
<u>Colonno</u> (2000)	Virologic	RC-1058.5	M46I, G73T, I84V, L90M	L63P	T12Z, L19Z, I64V	52.0
<u>Colonno</u> (2000)	Virologic	RC-178.4	M46I, V	L10V, L63P, I71T	T12Z	13.0
<u>Colonno</u> (2000)	Virologic	RC-2342-1		L63P, V77I, I93L	T12Z, K14Z	20.0
<u>Colonno</u> (2000)	Virologic	RC		L10I, M36I, V	E35D, I72Z, P79Z, Q92Z	21.0
<u>Colonno</u> (2000)	Virologic				I72Z	41.0
<u>Colonno</u> (2000)	Virco				E34Z, H69Z, P79Z	7.0
→ <u>Colonno</u> (2000)	Virco	H V6			<u>V11I</u> , A22Z, E35D, I62V, I66V	>36.0
<u>Colonno</u> (2000)	Virco	RC-V0245			<u>V11I</u> , A22Z, E35D, I62V	>36.0
<u>Colonno</u> (2000)	Virco	RC-V028427		M, A71V	E35D, R57K, Q58E, K70R, I72X, L89M	>36.0
<u>Colonno</u> (2000)	Virco	RC-V031612	I84V	M36L, L63P, A71V	A22Z, R41K, I62V, I64V, N83Z, T91Z	>36.0
<u>Colonno</u> (2000)	Virco	RC-V209962	M46I, I84V	L10I, L63P	E35D, P39Z, D60E	8.0
<u>Colonno</u> (2000)	Virco	RC-V209962b	M46I, I84V	L10I, L63P	E35D, P39Z	4.0
<u>Petropoulos</u> (2000)	Virologic	P178	M46I, V82T, I84V	L10V, L63P, A71T		4.0
<u>Petropoulos</u> (2000)	Virologic	P268	I54V, V82T, I84V, L90M	L10I, K20R, M36I, L63P, A71V		34.7
<u>Shulman</u> (2000)	Virologic	CA10011	G48V, I54V, V82A, I84V	L10I, L63P, A71V, V77I, I93L	G17E, N37D, K43T, C67S	11.0

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<u>Shulman</u> (2000)	Virologic	CA10675	M46L, I54V, V82A, I84V, L90M	L10I, K20IK, L63P, A71V	D60E, I62V	42.2
<u>Shulman</u> (2000)	Virologic	CA10676	M46I, G73S, V82T, I84V, L90M	L10I, L63P, A71LV, V77I, I93L	N37DN, R41K, K45RK, I85V	23.4
<u>Shulman</u> (2000)	Virologic	CA10679	M46IM, G73S, I84V, L90M	L10I, K20I, L63P, A71TA	D29VD, N37D, R41KR, I62V, K70R, I72TI	37.7
<u>Shulman</u> (2000)	Virologic	CA9980	G48V, I54V, V82A, I84V	L10I, V77I		10.2
<u>Shulman</u> (2000)	Virologic	CA9983	G73SG, I84V, L90M	L63P, A71V	R57K	9.5
<u>Shulman</u> (2000)	Virologic	CA9994	M46IM, I84V, L90M	L10FL, K20KIM, M36I	E35D, N37E, I62V, I64V, H69Y	47.0
<u>Walter</u> (2000)	GermanNRC	ptAW40	L24I, M46I, V82T, I84V	L10R, L63P, A71V	T12I, N37D	4.5
<u>Brun</u> (2001)	Virologic	SB-PtB-BL	I84V, L90M	L10X, L63P, A71V, T74P, I93L	E35D, N37D	33.5
<u>Brun</u> (2001)	Virologic	SB-PtB-w36	I84V, L90M	L10F, L63P, A71V, T74P, I93L	E35D, N37D	20.5
<u>Brun</u> (2001)	Virologic	SB-PtB-w48	M46I, I84V, L90M	L10F, L63P, A71V, T74P, I93L	T4A, E35D, N37E, K70R	30.1
<u>Dunne</u> (2001)	Virologic	ALD-pt111	M46I, G73T, I84V, L90M	L10I, L63P, A71V, V77T, I93L	I15V, E35D, N37E, I64V, I66VI	30.3
<u>Dunne</u> (2001)	Virologic	ALD-pt1811	M46L, G73S, I84V, L90M	L10F, L63P, A71V	R57K	18.4
<u>Dunne</u> (2001)	Virologic	ALD-pt911	M46IM, G73T, I84V, L90M	L10I, L63P, A71V, I93LI	I13VI, K55RK, I62VI, C67FC, K70Q, I72K	165.4
<u>Gonzales</u> (2001)	Virologic	CA16245	M46I, G73C, I84V, L90M	L10I, K20RK, M36I, L63P, I93L	T12S, I13VI, L19T, E35D, I62V, I72V	34.0
<u>Gonzales</u> (2001)	Virologic	CA4363	G73S, I84V, L90M	L10I, K20M, M36I, L63P, A71V	I62V, I64L, I66VI	24.0
<u>Kempf</u> (2001)	Virco	DK-3604	F53L, I84V, L90M	L10I, L63P, A71V	N37SN, L89I	7.3
<u>Kempf</u> (2001)	Virologic	DK-3794	I54V, V82A, I84V, L90M	L10I, L63P, A71V	I15V, I85V	7.0
<u>Kempf</u> (2001)	Virologic	DK-5084	M46I, G73SG, I84V, L90M	L10I, K20KIM, L63P, A71V, V77IV, I93LI	T12A, L19IL, E35D, N37P, K55RK, R57K, I62VI, I64VI, I66VI	26.0
<u>Kempf</u> (2001)	Virco	DK-5204	I84V, L90M	L10X, L63P, A71V, T74P, I93L	E35D, N37D	33.5
<u>Kempf</u> (2001)	Virco	DK-5814	G73S, I84V, L90M	L10I, L63P, A71V, V77I, I93L	I62VI	42.9
<u>Kempf</u>	Virologic	DK-5915	L24SL, G73S, I84V,	L10I, L63P, A71T, I13V, L19I, I62V,		35.0

<u>(2001)</u>			L90M	V77I	I72TI	
<u>Kempf</u>	Virologic	DK-6694	G73S, I84V, L90M	L10I, L63P, A71V	T12P, I13V, K14R, I72LI	27.0
<u>(2001)</u>						
<u>Kempf</u>	Virologic	DK-7205	L24I, M46I, I54V, G73S, I84V	L10I, K20I, L63P, A71V, V77I, I93L	T12P, K14R, Q18R, N37D, I66VI	58.0
<u>(2001)</u>						
<u>Kempf</u>	Virologic	DK-7974	I54V, G73T, I84V, L90M	L10I, K20R, M36V, L63P, A71V, V77I, I93L	L19T, E35D, N37S, C67FC	131.0
<u>(2001)</u>						
<u>Kempf</u>	Virologic	DK-7984	I54L, G73S, I84V, L90M	L10IL, L33F, L63PL, A71V, V77I, I93L	I13V, L19I, H69Y	23.0
<u>(2001)</u>						
<u>Kempf</u>	Virco	DK-8404	I84V, L90M	L10I, L63P, A71T, V77I, I93L	Q61E, C67S	8.9
<u>(2001)</u>						
<u>Kempf</u>	Virologic	DK-9584	L24I, I54V, V82A, I84V	L10I, L63P, A71VL, V77I, I93L	R57K	8.6
<u>(2001)</u>						
<u>Kempf</u>	Virologic	DK-9884	I84V, L90M	L10I, M36IM, L63P, A71V, I93L	D60E, I62V, G68E	18.0
<u>(2001)</u>						
<u>Beerenwinkel</u>	GermanNRC	10083-DAN	M46I, G73T, I84V, L90M	L10Y, K20I, L63P	P9T, I64V, E65DE, I72V	139.0
<u>(2002)</u>						
<u>Beerenwinkel</u>	GermanNRC	1043-UUK	L24*, I54V, I84V, L90M	K20R, M36I, L63P, A71V, I93L	L19S, E21X, L23FL, D25E, E35D, N37I, L38*, R41X, D60X	149.0
<u>(2002)</u>						
<u>Beerenwinkel</u>	GermanNRC	1112-HES	M46I, I84V	L10I, L63P, A71T	P9T, E35D, N37S, R41K	7.0
<u>(2002)</u>						
<u>Beerenwinkel</u>	GermanNRC	11368-WUEKURZ	I54V, G73S, I84V, L90M	L10I, K20IM, M36I, L63P, A71I, I93L	V11X, K14R, I15V, L19Q, R57K, I85MI	405.0
<u>(2002)</u>						
<u>Beerenwinkel</u>	GermanNRC	1146-STE	I54V, V82T, I84V	L63P, A71V, I93L	P9T, T12X, I15MI, N37S, I62V, I64V	7.0
<u>(2002)</u>						
<u>Beerenwinkel</u>	GermanNRC	1168-SCHUE	M46I, F53L, G73S, I84V, L90M	L10I, L63P, A71V, V77I, I93L	P9T, N37S, R41K, K70R	54.0
<u>(2002)</u>						
<u>Beerenwinkel</u>	GermanNRC	1308-LEN	M46I, G73T, I84V, L90M	L10I, L63P, A71V, V77I, I93L	Q61E, I62V, P79S, R87X, Q92X	106.0
<u>(2002)</u>						
<u>Beerenwinkel</u>	GermanNRC	1417-CHA	I47X, I54L, G73S, I84V, L90M	L63P, A71V	I15X	22.0
<u>(2002)</u>						
<u>Beerenwinkel</u>	GermanNRC	1432-SOE	G73S, I84V, L90M	L10I, K20T, M36I, L63P, A71V, V77I	T12K, I15V, L23D, N37D, I62V, H69N, I72X, T80X, N98H	332.0
<u>(2002)</u>						
<u>Beerenwinkel</u>	GermanNRC	1502-CODE	M46I, G73S, I84V, L90M	L10IM, L33I, L63P, A71I, V77I, I93L	I13V, N37C, P39Q, I62V, I72R	68.0
<u>(2002)</u>						
<u>Beerenwinkel</u>	GermanNRC	158-SOE	G73S, I84V, L90M	L10I, K20T, M36I, L63P, A71V, V77I	T12K, I15V, N37D, I62V, H69N	91.0
<u>(2002)</u>						
<u>Beerenwinkel</u>	GermanNRC	1771-REC	M46I, G73S, I84V, L90M	K20I, L63P, A71V	I62M, H69Q, I85X, Q92HQ, F99LF	80.0
<u>(2002)</u>						

<u>Beerenwinkel</u> (2002)	GermanNRC	1938-BE	L24I, I54L, G73ST, I84V	L10I, L63P, A71V	N37SN, D60ED	30.0
<u>Beerenwinkel</u> (2002)	GermanNRC	2095-LAN	I84V, L90M	M36I, L63P, A71V	R41K, H69R	11.0
<u>Beerenwinkel</u> (2002)	GermanNRC	2170-KOL	M46I, G73S, I84V, L90M	L10I, K20R, M36I, L63P, A71I, I93L	E35D, I62V, C95L	68.0
<u>Beerenwinkel</u> (2002)	GermanNRC	2244-ROE	I54V, V82T, I84V, L90M	L10I, K20R, M36I, L63P, A71V, I93L	T12S, I15V, L19I, L23X, E35D, N37D, R41K, R57K, C67W, H69K, I85V	37.0
<u>Beerenwinkel</u> (2002)	GermanNRC	3137-STA	M46I, I47X, G73T, I84V, L90M	L10I, K20I, L63P, A71V, V77I, I93L	T12N, K14R, L23F, N37D, N83KN, I85V	24.0
<u>Beerenwinkel</u> (2002)	GermanNRC	3200-THI	L24S, I47X, I54L, I84V, N88S	L10I, L33X, L63P, A71I, V77I, I93L	I13X, Q18H, L23FL, D29X	109.0
<u>Beerenwinkel</u> (2002)	GermanNRC	321-WEI	G73S, I84V, L90M	L10IM, K20M, M36I, L63P, A71V, I93L	T12A, I13V, I62V	133.0
<u>Beerenwinkel</u> (2002)	GermanNRC	3395-CODE	M46I, G73S, I84V, L90M	L10I, L63P, V77I, I93L	I13X, K14X, I15X, I62V, I72L	114.0
<u>Beerenwinkel</u> (2002)	GermanNRC	3549-CODE	G73T, I84V, L90M	L10I, K20R, M36I, L63P, I93L	K14X, I15X, L19X, E35D, K45R, Q61H	79.0
<u>Beerenwinkel</u> (2002)	GermanNRC	3558-COD	R8T, I84V, L90M	A71V, V77I	P9T, I13V, L38FL, I64V, I72V, Q92R	321.0
<u>Beerenwinkel</u> (2002)	GermanNRC	3610-CODE	M46I, I47X, I54V, I84V, L90M	L10I, K20R, M36I, L63P, A71V, I93L	T12X, K14X, I15T, A22X, E35DE, N37D, L38X, R57K, D60E, Q61E, I62V, I72T, I85V	260.0
→ <u>Beerenwinkel</u> (2002)	GermanNRC	4228-VOE	M46I, V82X, I84V, L90M	L10I, K20I, L63P, A71T, I93L	L23S, E35D, N37T, L89X, Q92K, C95F	103.0
<u>Beerenwinkel</u> (2002)	GermanNRC	464-LAW	L24X, D30ED, M46I, I50MI, I54F, G73T, I84V, L90M	L10I, L33FL, L63P, A71X, V77I, I93V	T12X, I15G, Q18K, L19X, A22V, D25E, A28X, L38X, P39R, K55R, I62V, I66M, I72M, P79X, N83KN, L89X	23.0
<u>Beerenwinkel</u> (2002)	GermanNRC	4670-CODE	L24X, D30X, G73T, I84V, L90M	L10M, K20R, L33X, M36I, L63P, A71T	T12R, K14E, I15R, Q18E, L19I, D25E, A28X, E34X, E35D, K45*, G49R, K55NK, I62V, I64V, I72T, G94X	80.0
<u>Beerenwinkel</u> (2002)	GermanNRC	4694-LAM	D30X, I50M, G73S, I84V, L90M	L10M, L63P, A71V	I13V, Q18H, D25ED, E35D, N37V, P39X, R41K, D60X, I62X, I72X	22.0